Appendix B
Meteorological Data

This section contains meteorological data derived from various regulatory and non-regulatory sites. The data provides a comparative analysis of winds speed, wind direction, wind gusts and concentration data. Please note that meteorological instruments measure at different heights, and at different time intervals. By taking, the actual time of measurement and assuring that all data represented is in Pacific Standard Time (PST) there is uniformity of the data. In addition, not all stations measure at the exact same time, i.e. measurements at 053 and 056 therefore, comparisons are measurements within a 60-minute period. While there may be some overlapping and slight differences the comparative analysis provides the reader with a better understanding of the regional effect of the Exceptional Event.

FIGURE B-1
METEOROLOGICAL AND AIR QUALITY SITES REFERENCED IN THIS DOCUMENT

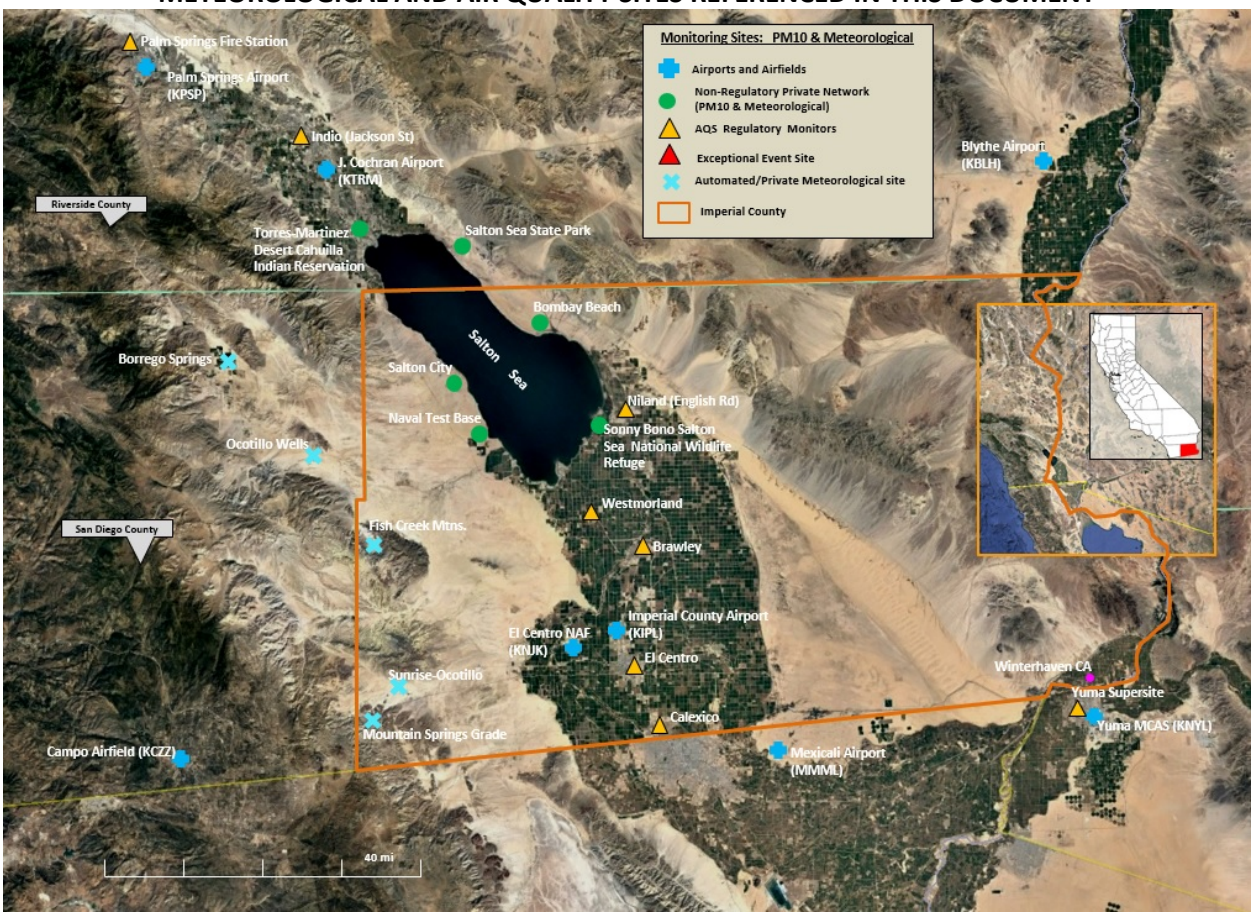


Fig. B-1: A collection meteorological and air quality sites referenced in this document. Base map from Google Earth.

IMPERIAL COUNTY SITES
FIGURES B-2 THROUGH B-9

FIGURE B-2
IMPERIAL COUNTRY AIRPORT (KIPL)
WIND SPEED (AVERAGES), GUSTS & DIRECTION

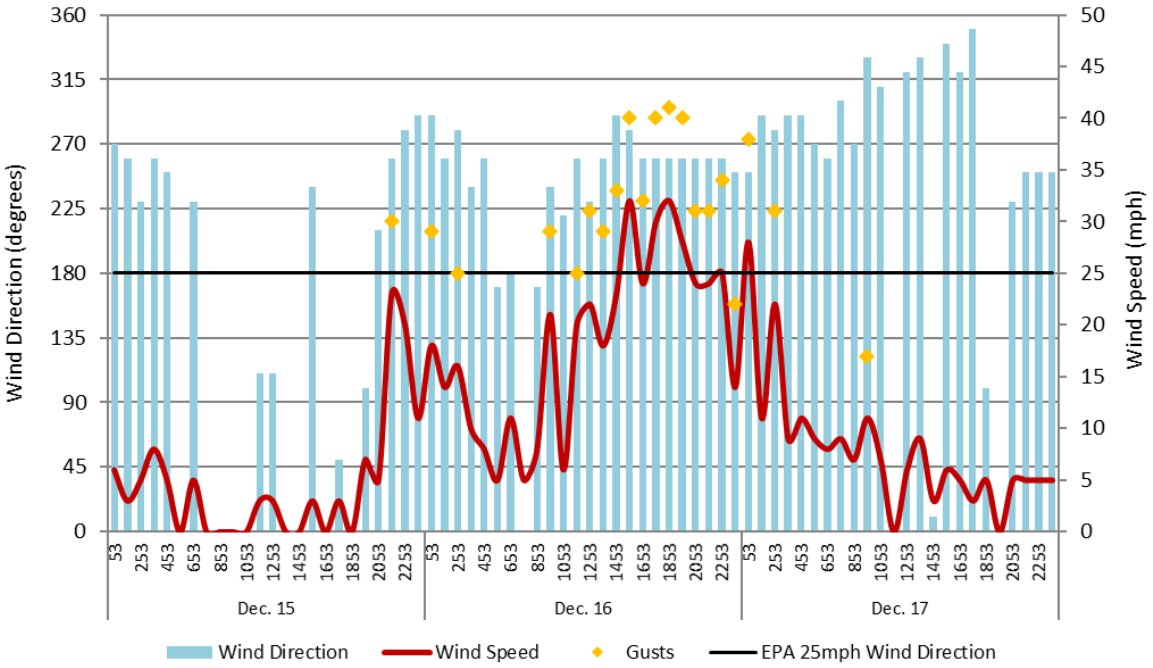
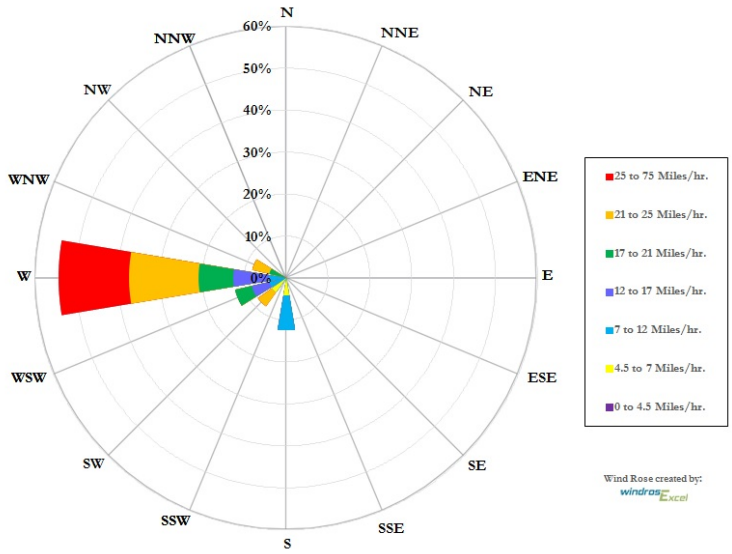


FIGURE B-3
IMPERIAL COUNTRY AIRPORT (KIPL) WIND ROSE – DECEMBER 16, 2016



Figs. B-2 & B-3: Imperial Airport meteorological data for December 16, 2016 shows that both winds and gusts exceeded 25 mph, gust did exceed the threshold. Wind data from the NCEI's QCLCD system.

FIGURE B-4
EL CENTRO NAF (KNJK)
WIND SPEED (AVERAGES), GUSTS & DIRECTION

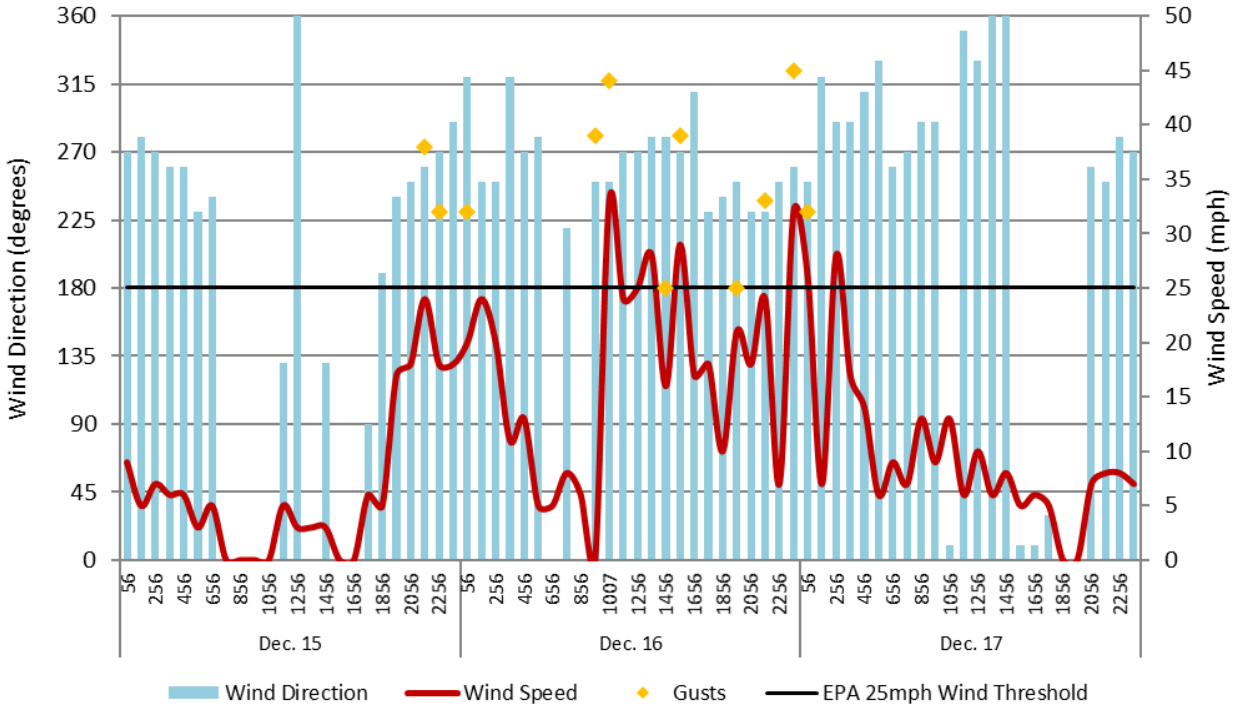
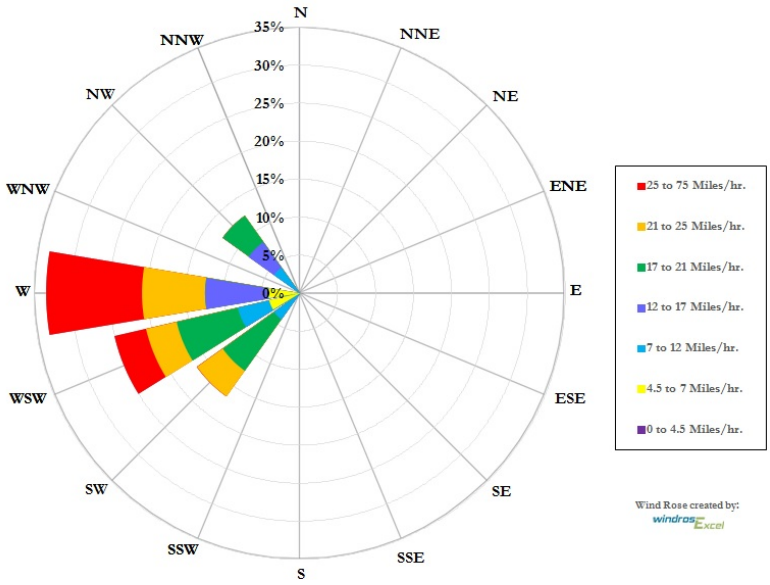


FIGURE B-5
EL CENTRO NAF (KNJK) WIND ROSE – DECEMBER 16, 2016



Figs. B-4 & B-5: El Centro NAF meteorological data for December 16, 2016 shows that both winds and gusts were over 25 mph. Wind data from the NCEI's QCLCD system.

FIGURE B-6
CALEXICO
WIND SPEED & DIRECTION

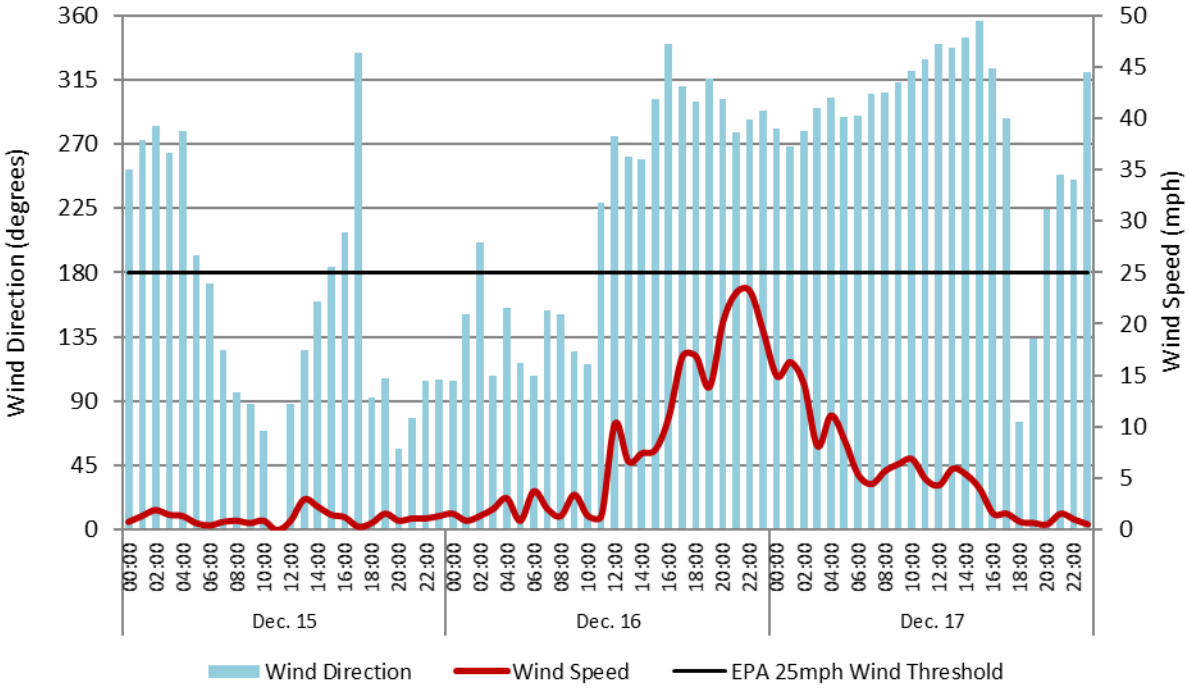
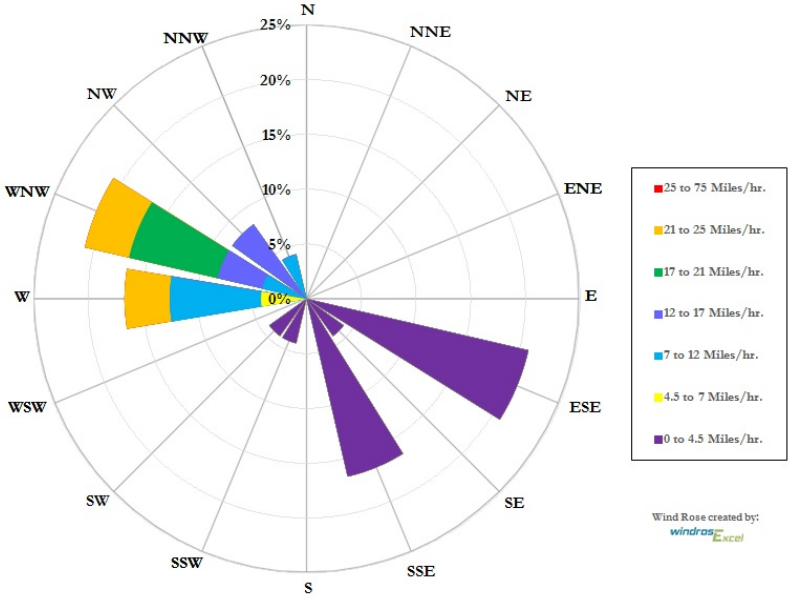
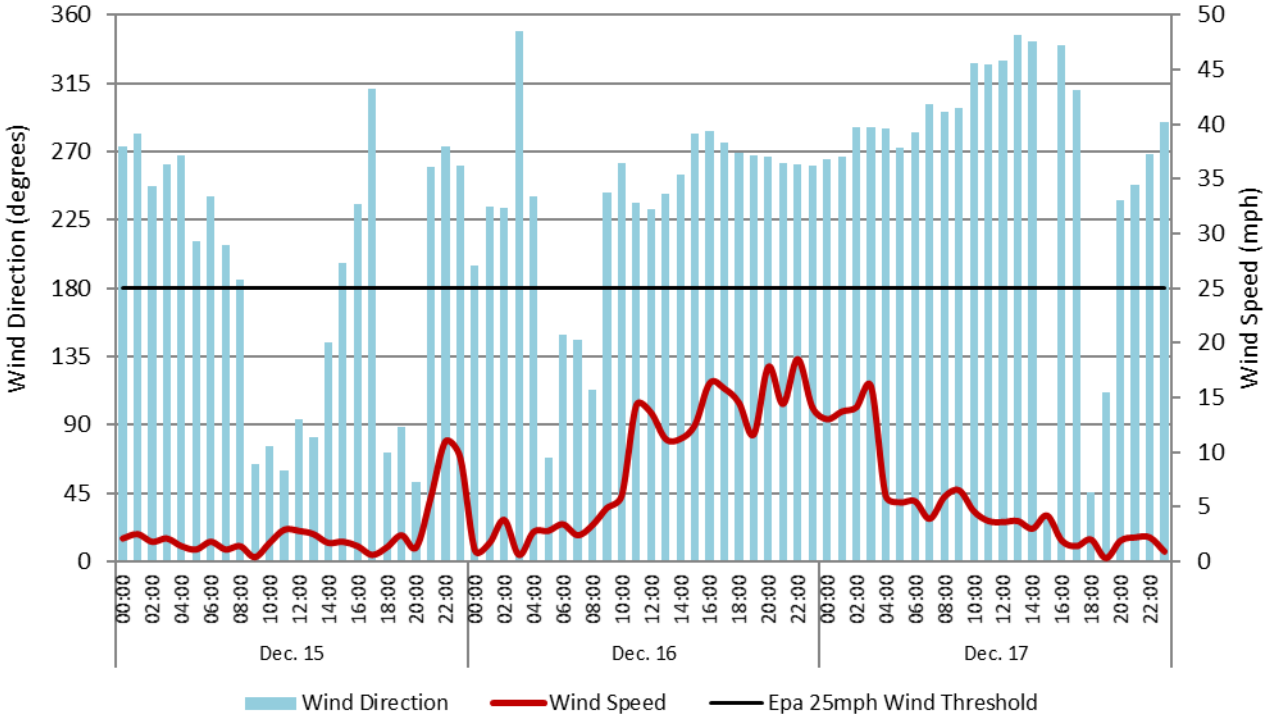


FIGURE B-7
CALEXICO WINDROSE – DECEMBER 16, 2016

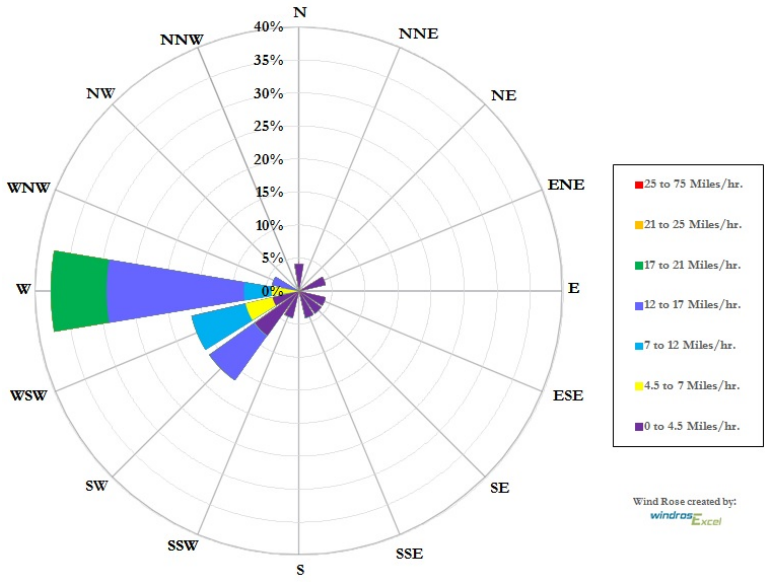


Figs. B-6 & B-7: Calexico meteorological data for December 16, 2016 shows that the station received predominantly W-WNW winds under 25 mph. Wind data from the EPA's AQS data bank.

FIGURE B-8
EL CENTRO (9TH St)
WIND SPEED & DIRECTION



FIGURES B-9
EL CENTRO (9TH ST) WIND ROSE – DECEMBER 16, 2016



Figs. B-8 & B-9: El Centro station meteorological data for December 16, 2016 shows a distinct westerly direction. Wind data from the EPA's AQS data bank.

FIGURE B-10
NILAND (ENGLISH RD)
WIND SPEED & DIRECTION

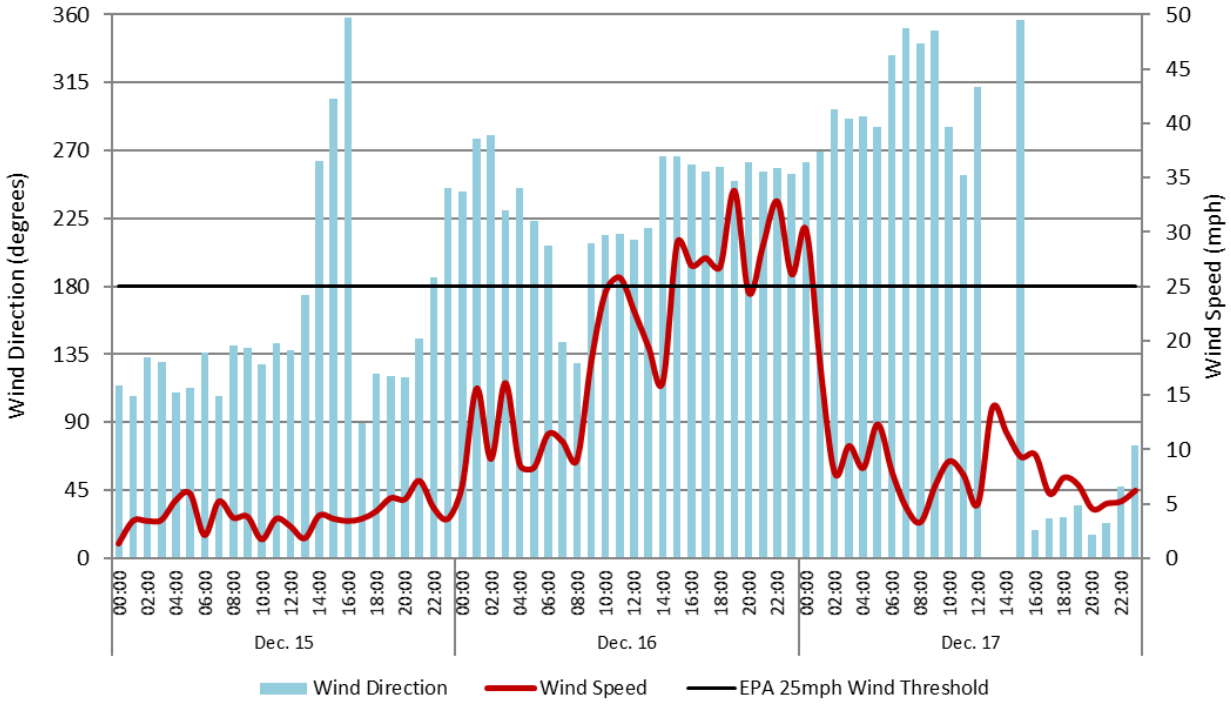
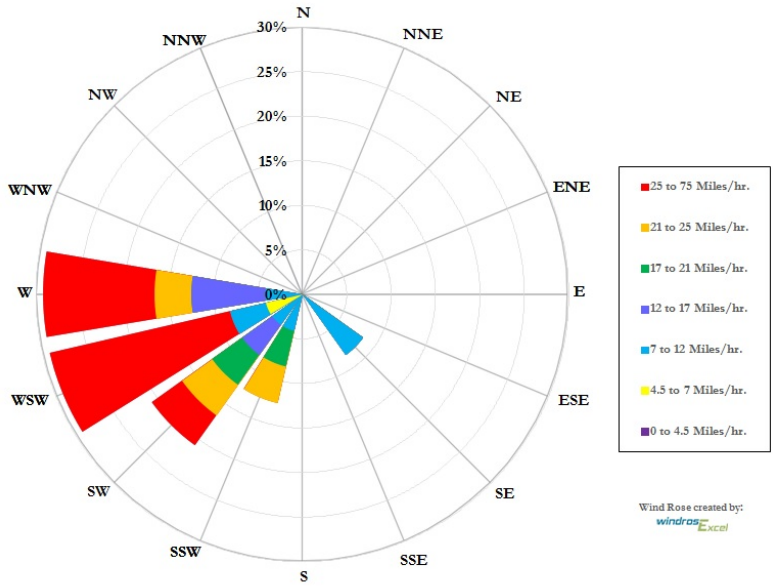


FIGURE B-11
NILAND (ENGLISH RD) WINDROSE – DECEMBER 16, 2016



Figs. B-10 & B-11: Niland wind data for December 16, 2016 shows a distinct W-WSW-SW direction for winds. Winds exceeded the 25 mph threshold. Niland doesn't record gusts. Wind data from the EPA's AQS data bank.

FIGURE B-12
WESTMORLAND
WIND SPEED & DIRECTION

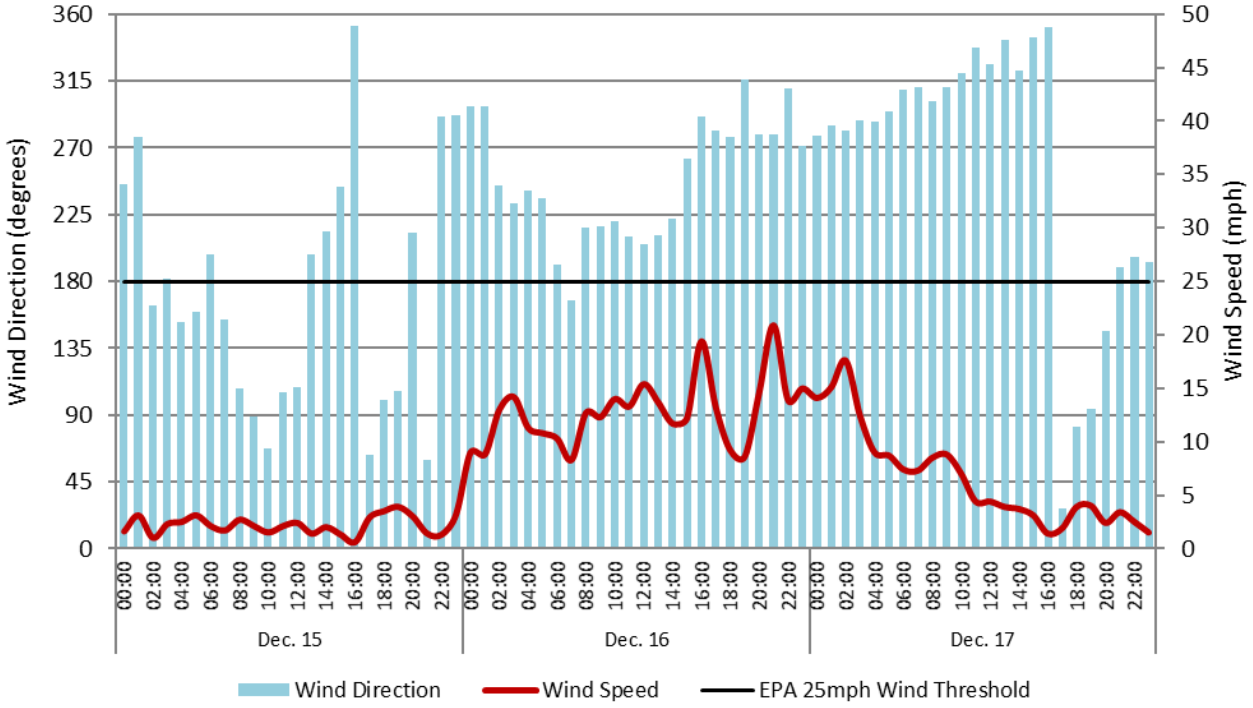
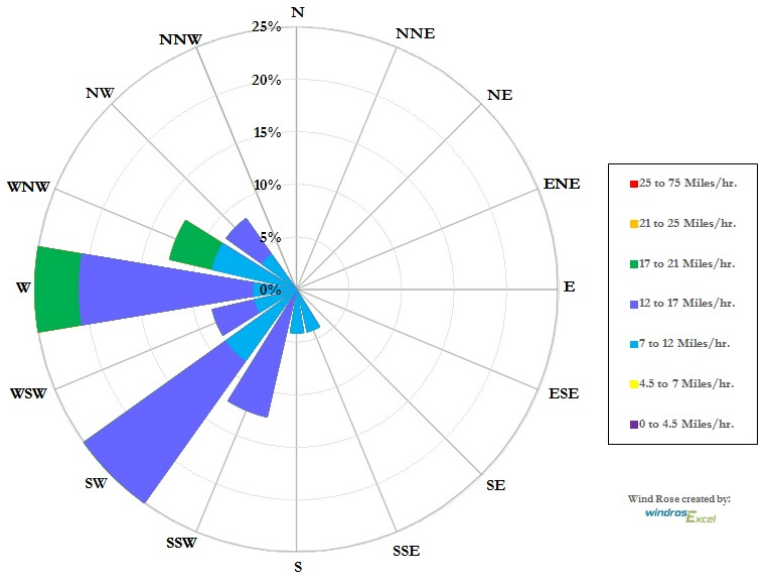


FIGURE B-13
WESTMORLAND WINDROSE – DECEMBER 16, 2016



Figs. B-12 & B-13: Westmorland station meteorological data for December 16, 2016 shows a distinct W-SW direction for the higher winds. Wind data from the EPA's AQS data bank.

EASTERN RIVERSIDE COUNTY SITES

FIGURE B-14
BLYTHE AIRPORT (KBLH)
WIND SPEED (AVERAGES), GUSTS & DIRECTION

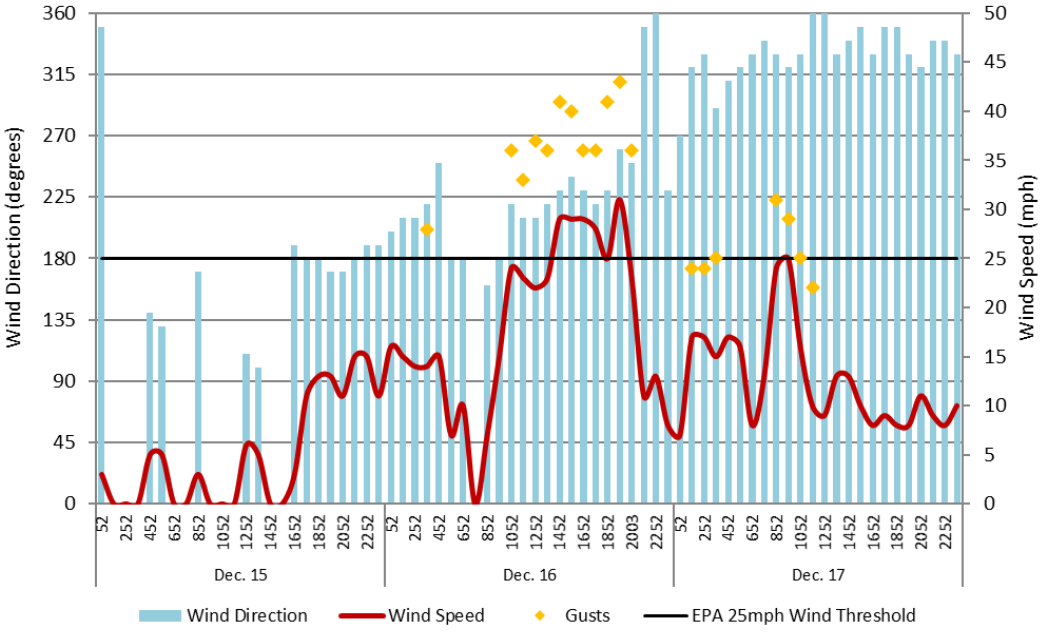


Fig. B-14: Wind data from the NCEI's QCLCD system.

FIGURE B-15
JACQUELINE COCHRAN REGIONAL AIRPORT (KTRM)
WIND SPEED (AVERAGES), GUSTS & DIRECTION

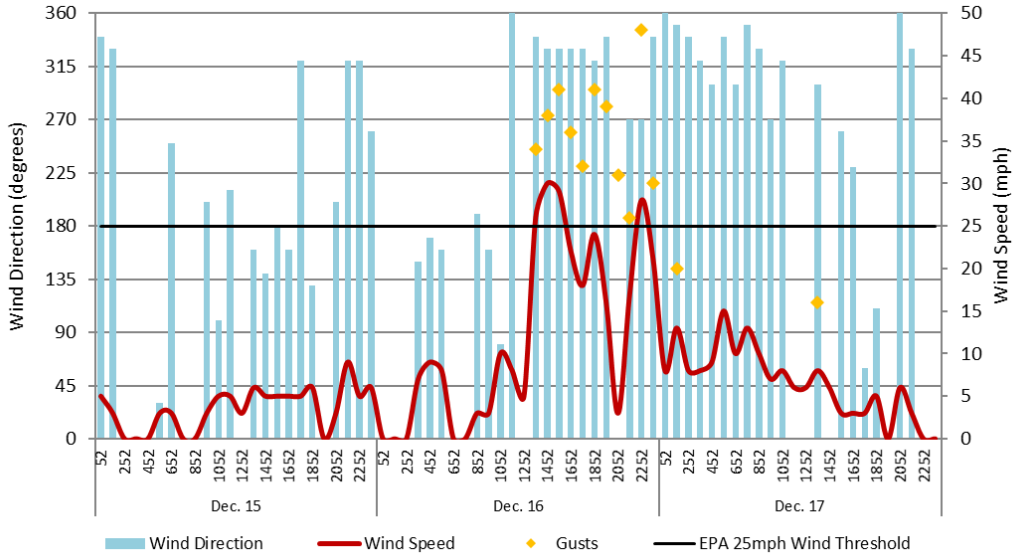


Fig. B-15: Wind data from the NCEI's QCLCD system.

FIGURE B-16
PALM SPRINGS INTERNATIONAL AIRPORT (KPSP)
WIND SPEED (AVERAGES), GUSTS & DIRECTION

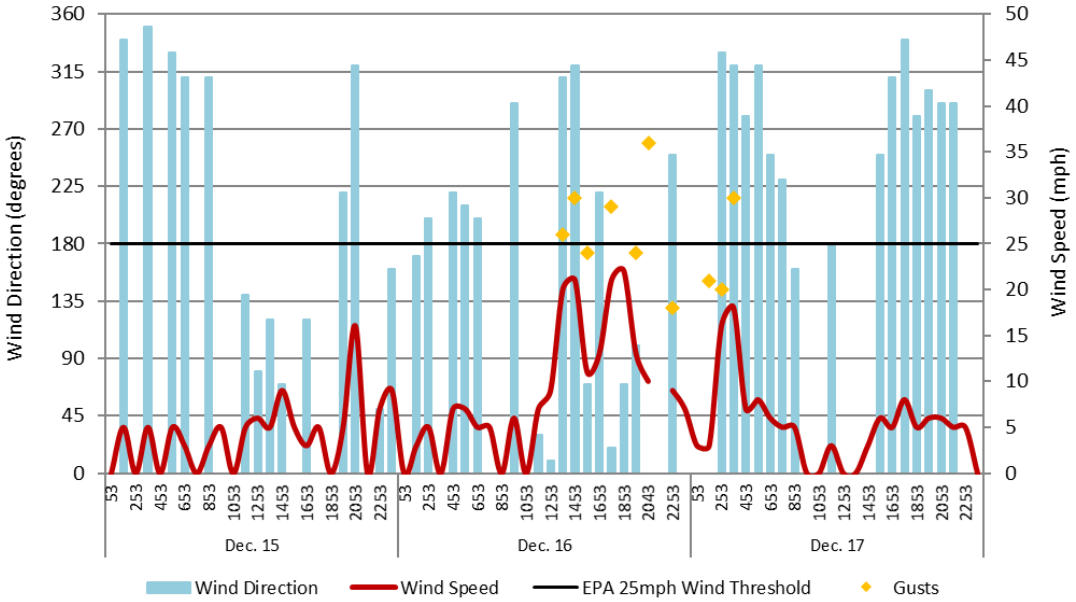


Fig. B-16: Wind data from the NCEI's QCLCD system.

SOUTHEAST SAN DIEGO COUNTY

FIGURE B-17
CAMPO AIRFIELD (KCZZ)
WIND SPEED (AVERAGES), GUSTS & DIRECTION

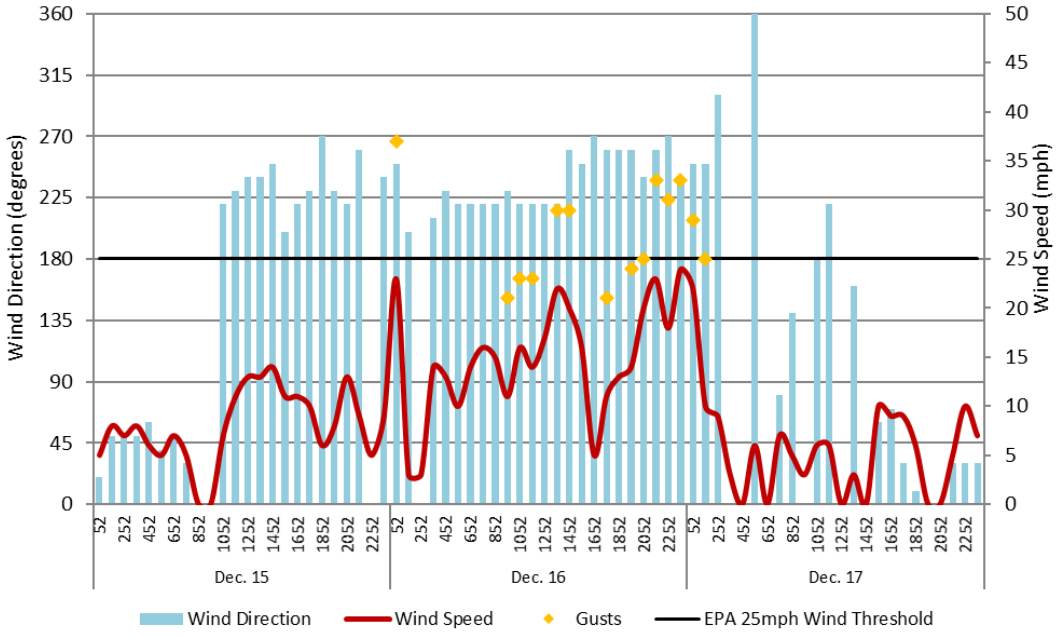
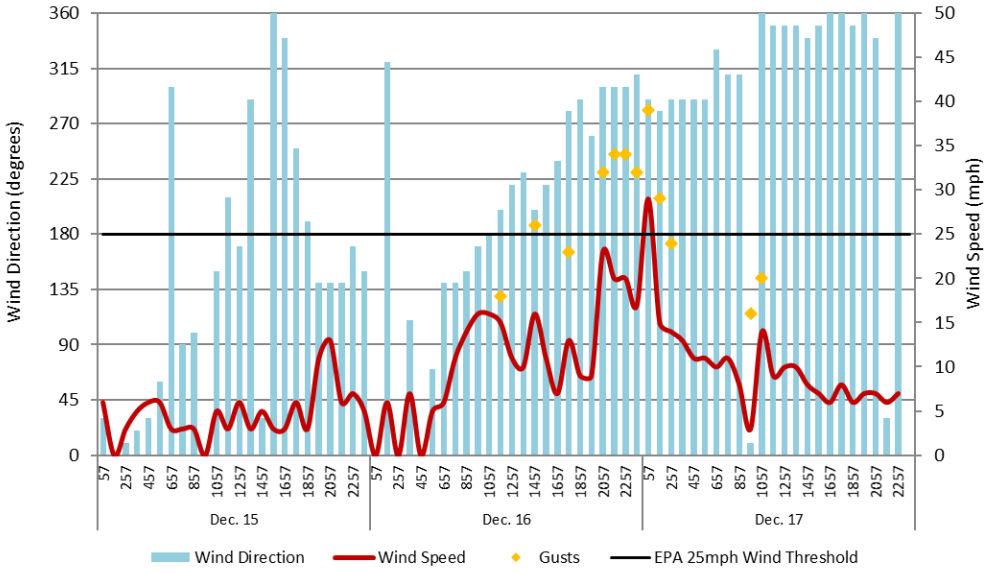


Fig. B-17: Wind data from the NCEI's QCLCD system.

SOUTHWESTERN ARIZONA

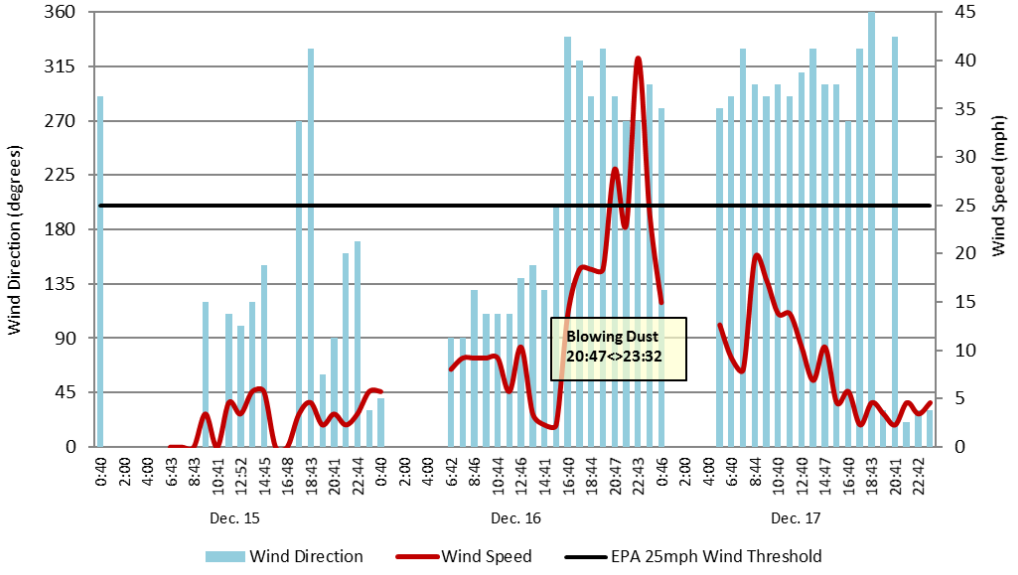
FIGURE B-18
YUMA MCAS (KNYL)
WIND SPEED (AVERAGES), GUSTS & DIRECTION



Figs. B-18: Yuma MCAS (KNYL), downstream from Imperial County, did not have winds of 25 mph. Data from the NCEI QCLCD system.

MEXICO

FIGURE B-19
MEXICALI INTERNATIONAL AIRPORT (MMML)
WIND SPEED & DIRECTION

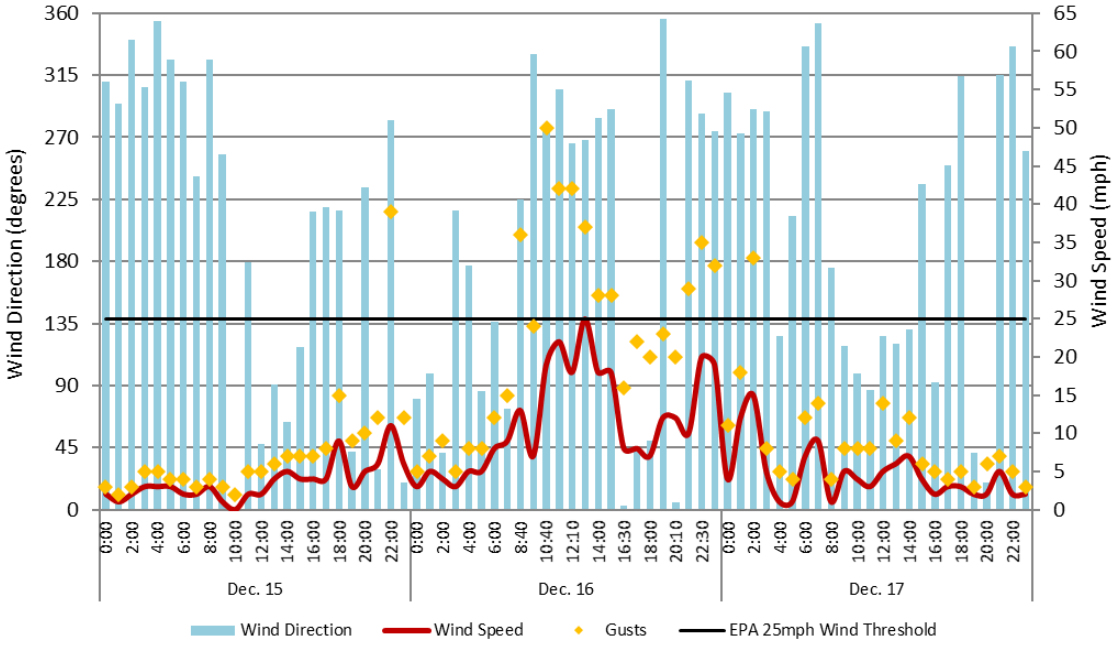


Figs. B-19: Mexicali Airport had both winds over 25 mph along with blowing dust on December 16. Data from the University of Utah's MesoWest.

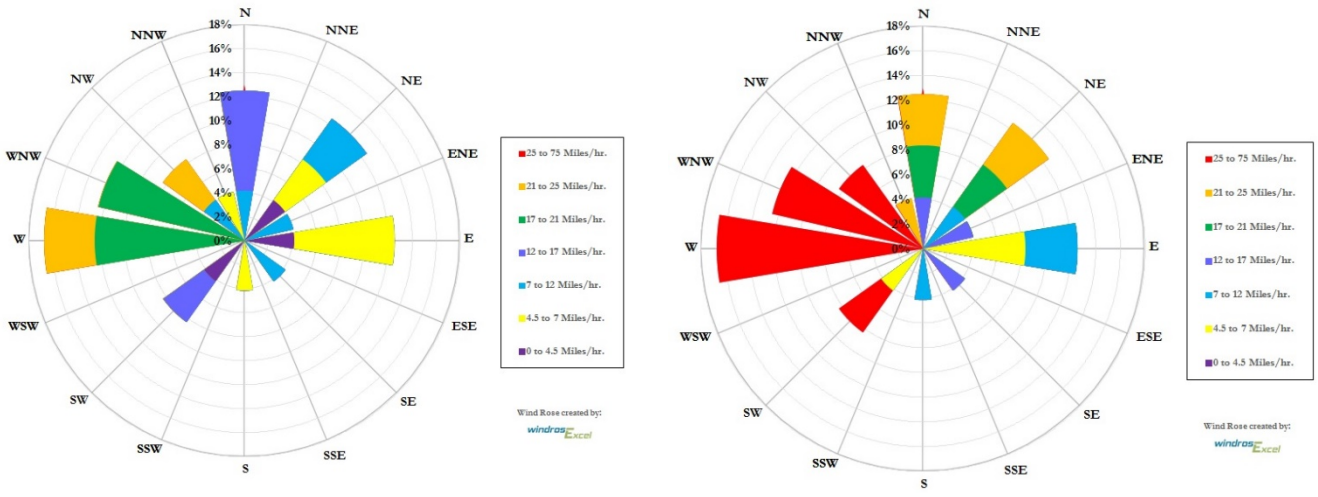
UPSTREAM WIND SITES

The following sites were upstream from Imperial County during the December 16, 2016 wind event.

FIGURE B-20
BORREGO SPRINGS
WIND SPEED (AVERAGES), GUSTS & DIRECTION

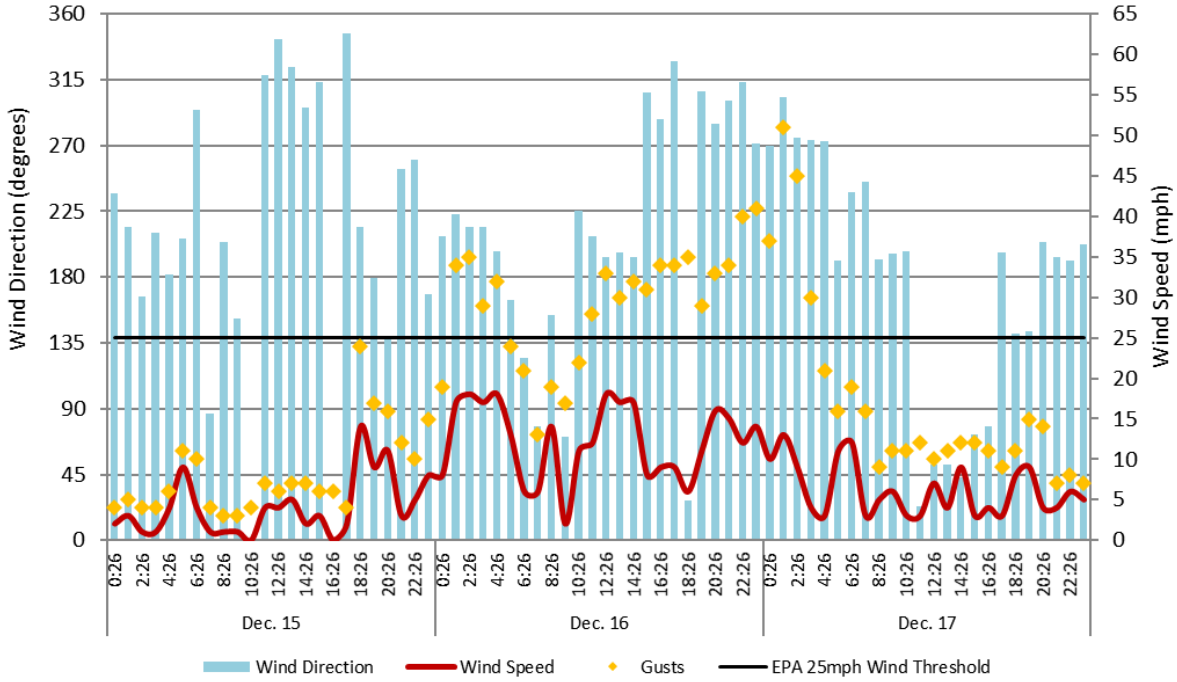


FIGURES B-21 & B-22
BORREGO SPRINGS WIND ROSES – DECEMBER 16, 2016

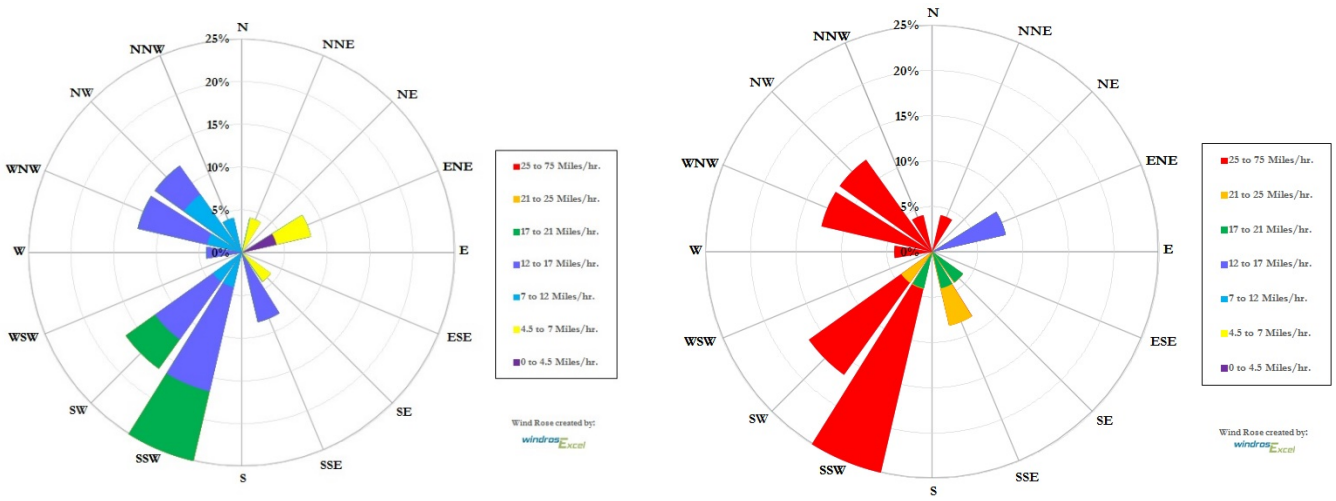


Figs. B-20 & B-21 & B-22: Borrego Springs (BRSGD) near the desert floor (elev. 720 ft.) had both winds (right wind rose) and gusts (left wind rose) of 25 mph. Data from the University of Utah's MesoWest.

FIGURE B-23
FISH CREEK MOUNTAINS
WIND SPEED (AVERAGES), GUSTS & DIRECTION

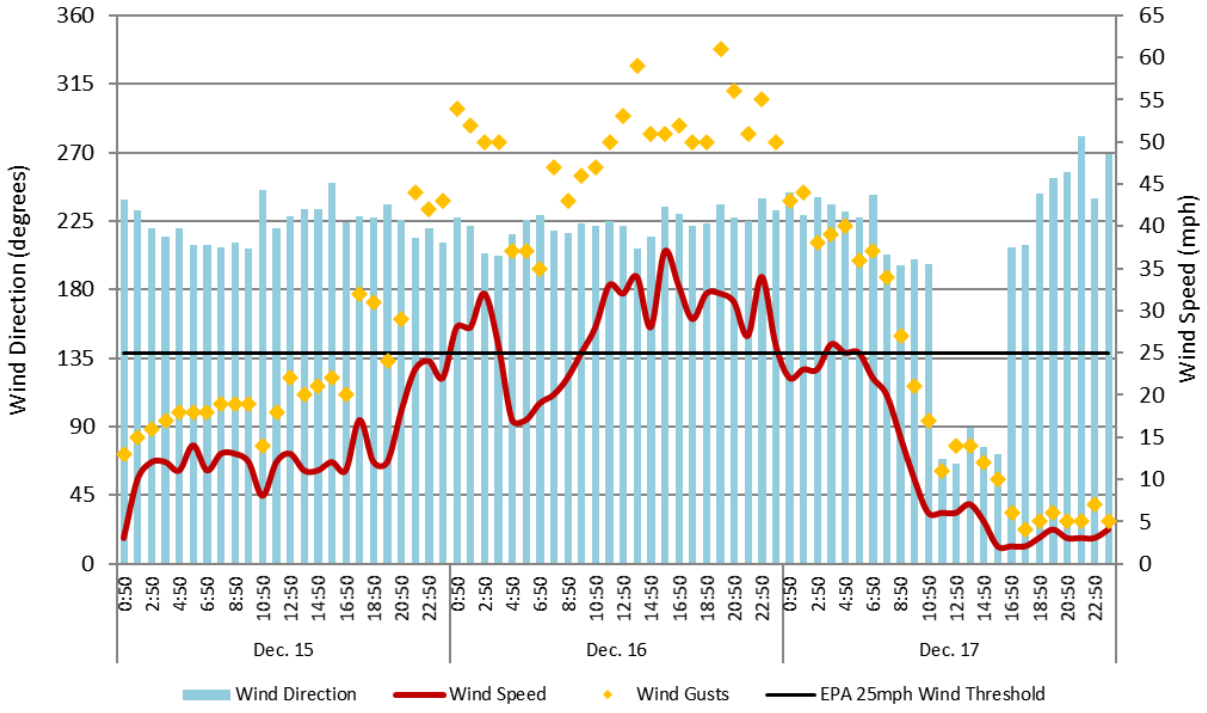


FIGURES B-24 & B-25
FISH CREEK MOUNTAINS WIND ROSES – DECEMBER 16, 2016

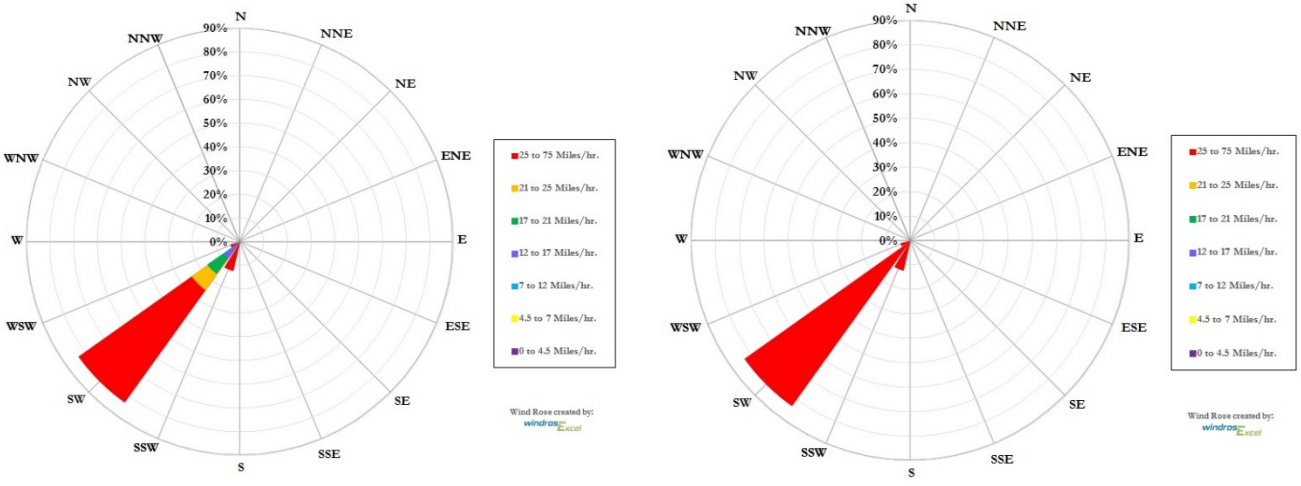


Figs. B-23, B-24 & B-25: The Fish Creek Mountains (FHCC1) near the desert floor (elev. 781 ft.) had gusts of over 25 mph. Wind roses are for winds only (left) and gusts only (right). Data from the University of Utah's MesoWest.

FIGURE B-26
MOUNTAIN SPRINGS GRADE
WIND SPEED (AVERAGES), GUSTS & DIRECTION

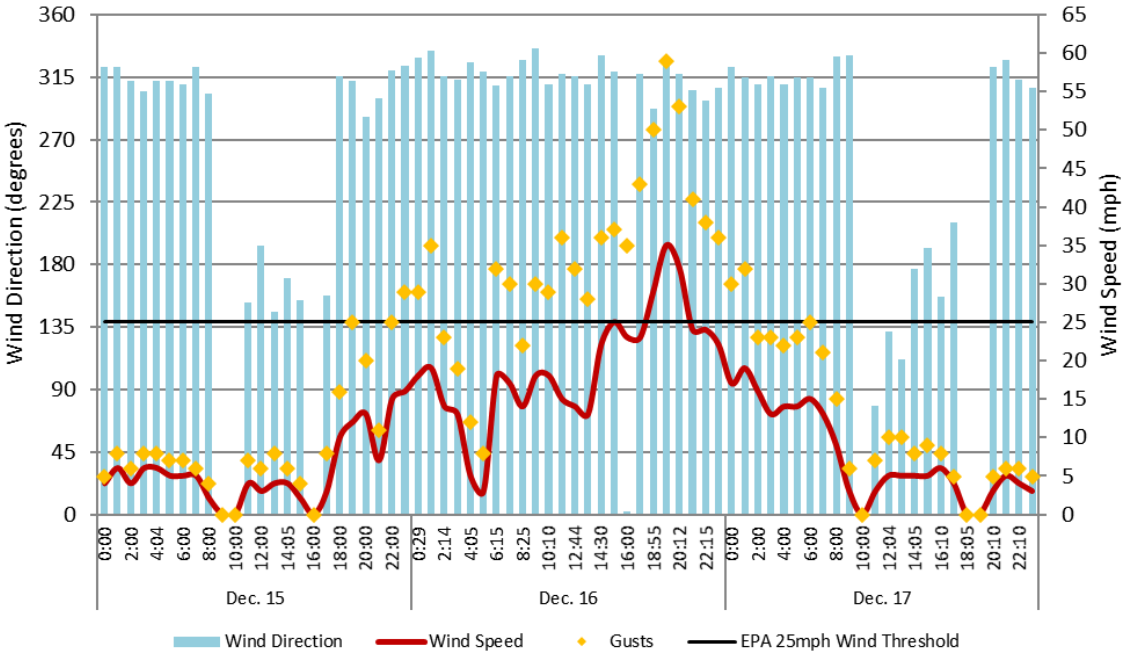


FIGURES B-27 and B-28
MOUNTAIN SPRINGS GRADE WIND ROSES – DECEMBER 16, 2016

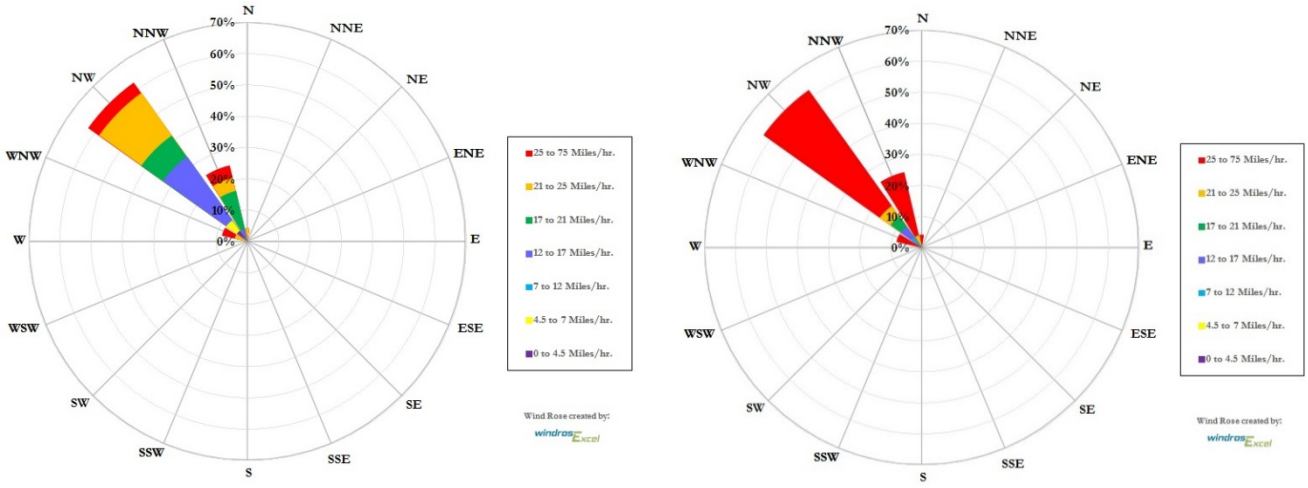


Figs. B-26, B-27 & B-28: Mountain Springs Grade (TNSC1) on the desert slopes (elev. 2,044 ft.) had winds and gusts of over 25 mph. Wind roses are for winds only (left) and gusts only (right). Data from the University of Utah's MesoWest.

FIGURE B-29
OCOTILLO WELLS
WIND SPEED (AVERAGES), GUSTS & DIRECTION



FIGURES B-30 & B-31
OCOTILLO WELLS WIND ROSES – DECEMBER 16, 2016



Figs. B-29, B-30 & B-31: Ocotillo Wells (AS938/KD6RSQ5) near the desert floor (elev. 419 ft.) had winds (left wind rose) and gusts (right wind rose) of over 25 mph. Data from the University of Utah's MesoWest.

FIGURE B-32
IMPERIAL COUNTY AIRPORT (KIPL) QCLCD – DECEMBER 15, 2016

U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information Service
Current Location: Elev: -58 ft. Lat: 32.8342° N Lon: -115.5786° W
Station: **IMPERIAL CO AIRPORT, CA US 03144**

Local Climatological Data
Hourly Observations
December 2016
Generated on 09/12/2017

National Centers for Environmental Information
151 Patton Avenue
Asheville, North Carolina 28801

Date	Time (LST)	Station Type	Sky Conditions	Visibility	Weather Type (see documentation)	Dry Bulb Temp		Wet Bulb Temp		Dew Point Temp		Rel Hum %	Wind Speed (MPH)	Wind Dir (Deg)	Wind Gusts (MPH)	Station Press (inHg)	Press. Tend	Net 3-Hr Change (inHg)	Sea Level Press. (inHg)	Report Type	Precip Total (in)	Altimeter Setting (inHg)
					AU | AW | MW	(F)	(C)	(F)	(C)	(F)	(C)											
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
15	0053	7	CLR:00	10.00		52	11.1	48	9.1	44	6.7	75	6	270		30.05	8	+0.01	29.99	FM-15	0.00	29.99
15	0153	7	CLR:00	10.00		50	10.0	47	8.1	42	5.6	74	3	260		30.06			30.00	FM-15	0.00	30.00
15	0253	7	CLR:00	10.00		49	9.4	18	-7.5	43	6.1	80	5	230		30.05			29.99	FM-15	0.00	29.99
15	0353	7	CLR:00	10.00		49	9.4	18	-7.6	42	5.6	77	8	260		30.05	8	+0.01	29.98	FM-15	0.00	29.99
15	0453	7	CLR:00	10.00		50	10.0	46	7.9	41	5.0	71	5	250		30.03			29.97	FM-15	0.00	29.97
15	0553	7	CLR:00	10.00		52	11.1	48	8.7	42	5.6	69	0	000		30.02			29.96	FM-15	0.00	29.96
15	0653	7	CLR:00	10.00		52	11.1	48	9.1	44	6.7	75	5	230		30.04	5	+0.01	29.98	FM-15	0.00	29.98
15	0753	7	CLR:00	10.00		54	12.2	50	9.9	45	7.2	72	0	000		30.04			29.98	FM-15	0.00	29.98
15	0853	7	CLR:00	10.00		59	15.0	53	11.7	47	8.3	64	0	000		30.05			29.98	FM-15	0.00	29.99
15	0953	7	CLR:00	8.00		63	17.2	56	13.3	49	9.4	60	0	000		30.04	0	-0.00	29.98	FM-15	0.00	29.98
15	1053	7	CLR:00	10.00		66	18.9	58	14.2	50	10.0	56	0	000		30.03			29.97	FM-15	0.00	29.97
15	1153	7	CLR:00	10.00		68	20.0	58	14.4	49	9.4	51	3	110		29.99			29.93	FM-15	0.00	29.93
15	1253	7	CLR:00	9.00		69	20.6	59	14.9	50	10.0	51	3	110		29.97	8	+0.08	29.90	FM-15	0.00	29.91
15	1353	7	CLR:00	10.00		70	21.1	61	15.9	53	11.7	55	0	000		29.94			29.88	FM-15	0.00	29.88
15	1453	7	FEW:02 110	10.00		71	21.7	61	15.9	52	11.1	51	0	000		29.94			29.88	FM-15	0.00	29.88
15	1553	7	FEW:02 110	9.00		70	21.1	61	15.9	53	11.7	55	3	240		29.94	5	+0.02	29.88	FM-15	0.00	29.88
15	1653	7	BKN:07 120	10.00		68	20.0	59	15.2	52	11.1	57	0	000		29.95			29.88	FM-15	0.00	29.89
15	1753	7	FEW:02 70 SCT:04 90 BKN:07 110	10.00		68	20.0	59	15.2	52	11.1	57	3	050		29.95			29.89	FM-15	0.00	29.89
15	1853	7	OVC:08 110	10.00		66	18.9	59	15.0	53	11.7	63	0	000		29.95	3	-0.01	29.89	FM-15	T	29.89
15	1953	7	SCT:04 120	8.00		68	20.0	60	15.5	53	11.7	59	7	100		29.94			29.88	FM-15	0.00	29.88
15	2053	7	CLR:00	10.00		69	20.6	54	12.3	39	3.9	33	5	210		29.94			29.88	FM-15	0.00	29.88
15	2153	7	CLR:00	10.00		71	21.7	54	12.0	35	1.7	27	23	260	30	29.92	8	+0.03	29.86	FM-15	0.00	29.86
15	2253	7	SCT:04 120	10.00		71	21.7	56	13.2	41	5.0	34	20	280		29.91			29.85	FM-15	0.00	29.85
15	2353	7	CLR:00	10.00		69	20.6	56	13.4	44	6.7	41	11	290		29.89			29.83	FM-15	0.00	29.83

FIGURE B-33
IMPERIAL COUNTY AIRPORT (KIPL) QCLCD – DECEMBER 16, 2016

U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information Service
Elev: -58 ft. Lat: 32.8342° N Lon: -115.5786° W
Station: **IMPERIAL CO AIRPORT, CA US WBAN:03144**

Local Climatological Data
Hourly Observations
December 2016
Generated on 07/05/2017

National Centers for Environmental Information
151 Patton Avenue
Asheville, North Carolina 28801

Date	Time (LST)	Station Type	Sky Conditions	Visibility	Weather Type (see documentation)	Dry Bulb Temp		Wet Bulb Temp		Dew Point Temp		Rel Hum %	Wind Speed (MPH)	Wind Dir (Deg)	Wind Gusts (MPH)	Station Press (inHg)	Press. Tend	Net 3-Hr Change (inHg)	Sea Level Press. (inHg)	Report Type	Precip Total (in)	Altimeter Setting (inHg)
					AU | AW | MW	(F)	(C)	(F)	(C)	(F)	(C)											
16	0053	7	CLR:00	10.00		69	20.6	60	15.4	43	6.1	39	18	290	29	29.90	5	+0.03	29.84	FM-15	0.00	29.84
16	0153	7	BKN:07 90 BKN:07 110	10.00		69	20.6	60	15.4	41	5.0	36	14	260		29.91			29.85	FM-15	0.00	29.85
16	0253	7	OVC:08 110	10.00		66	18.9	57	13.9	42	5.6	42	16	280	25	29.89			29.83	FM-15	0.00	29.83
16	0353	7	OVC:08 100	10.00		64	17.8	56	13.1	44	6.7	48	10	240		29.88	8	+0.02	29.82	FM-15	T	29.82
16	0453	7	CLR:00	10.00		64	17.8	56	13.4	47	8.3	54	8	260		29.86			29.80	FM-15	T	29.80
16	0553	7	SCT:04 110	10.00		64	17.8	56	13.3	46	7.8	52	5	170		29.87			29.80	FM-15	0.00	29.81
16	0653	7	CLR:00	10.00		62	16.7	55	12.8	48	8.9	60	11	180		29.86	6	+0.02	29.80	FM-15	0.00	29.80
16	0753	7	CLR:00	10.00		66	18.9	58	14.3	48	8.9	52	5	VRB		29.86			29.80	FM-15	0.00	29.80
16	0853	7	CLR:00	10.00		70	21.1	61	16.2	51	10.6	51	8	170		29.88			29.82	FM-15	0.00	29.82
16	0919	7	CLR:00	10.00		76	24.4	66	18.9	53	11.7	45	21	240	29	29.87				FM-16		29.81
16	0953	7	CLR:00	10.00		75	23.9	65	18.5	54	12.2	48	20	260	26	29.87	0	-0.01	29.81	FM-15	0.00	29.81
16	1053	7	FEW:02 17 BKN:07 80	7.00		77	25.0	67	19.4	55	12.8	47	6	220		29.85			29.78	FM-15	0.00	29.79
16	1153	7	CLR:00	10.00		79	26.1	68	20.3	54	12.2	42	20	260	25	29.80			29.73	FM-15	0.00	29.74
16	1253	7	CLR:00	10.00		80	26.7	69	20.8	52	11.1	38	22	230	31	29.76	8	+0.11	29.70	FM-15	0.00	29.70
16	1353	7	CLR:00	10.00		79	26.1	68	20.2	53	11.7	41	18	260	29	29.74			29.67	FM-15	0.00	29.68
16	1453	7	FEW:02 36	10.00		77	25.0	67	19.3	53	11.7	43	23	290	33	29.74			29.67	FM-15	0.00	29.68
16	1553	7	CLR:00	9.00		73	22.8	64	17.7	54	12.2	51	32	280	40	29.73	6	+0.03	29.67	FM-15	0.00	29.67
16	1653	7	CLR:00	10.00		70	21.1	61	16.2	51	10.6	51	24	260	32	29.75			29.69	FM-15	0.00	29.69
16	1717	7	SCT:04 9	6.00	HZ:7 |FU:05 |HZ:05	67	19.4	58	14.6	47	8.3	49	28	280	33	29.74				FM-16		29.68
16	1753	7	CLR:00	10.00		66	18.9	57	14.1	46	7.8	49	30	260	40	29.74			29.68	FM-15	0.00	29.68
16	1853	7	CLR:00	10.00		64	17.8	56	13.1	44	6.7	48	32	260	41	29.76	3	-0.03	29.70	FM-15	0.00	29.70
16	1953	7	CLR:00	8.00		62	16.7	54	12.0	40	4.4	44	28	260	40	29.80			29.74	FM-15	0.00	29.74
16	2053	7	CLR:00	10.00		59	15.0	51	10.6	38	3.3	46	24	260	31	29.84			29.78	FM-15	0.00	29.78
16	2114	7	BKN:07 19	6.00	HZ:7 |FU:05 |HZ:05	59	15.0	51	10.6	39	3.9	48	23	280	34	29.83				FM-16		29.77
16	2139	7	SCT:04 19	10.00		59	15.0	51	10.6	38	3.3	46	24	260	31	29.84				FM-16		29.78
16	2153	7	CLR:00	9.00		59	15.0	51	10.6	39	3.9	48	24	260	31	29.85	1	-0.09	29.79	FM-15	0.00	29.79
16	2253	7	CLR:00	10.00		58	14.4	50	10.2	39	3.9	50	25	260	34	29.87			29.81	FM-15	0.00	29.81
16	2353	7	CLR:00	10.00		56	13.3	48	9.0	33	0.6	42	14	250	22	29.92			29.85	FM-15	0.00	29.86

FIGURE B-34
EL CENTRO NAF (KNJK) QCLCD – DECEMBER 15, 2016

U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information Service
Current Location: Elev: -42 ft. Lat: 32.8167° N Lon: -115.6833° W
Station: **EL CENTRO NAF, CA US 23199**

Local Climatological Data
Hourly Observations
December 2016
Generated on 09/12/2017

National Centers for Environmental Information
151 Patton Avenue
Asheville, North Carolina 28801

Date	Time (LST)	Station Type	Sky Conditions	Visibility	Weather Type (see documentation)	Dry Bulb Temp		Wet Bulb Temp		Dew Point Temp		Rel Hum %	Wind Speed (MPH)	Wind Dir (Deg)	Wind Gusts (MPH)	Station Press (inHg)	Press. Tend	Net 3-Hr Change (inHg)	Sea Level Press. (inHg)	Report Type	Precip Total (in)	Altimeter Setting (inHg)
					AU | AW | MW	(F)	(C)	(F)	(C)	(F)	(C)											
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
15	0056	7	CLR:00	10.00		51	10.6	46	7.9	40	4.4	66	9	270		30.06	8	+0.01	30.06	FM-15	0.00	30.02
15	0156	7	CLR:00	10.00		50	10.0	45	7.4	39	3.9	66	5	280		30.06			30.06	FM-15	0.00	30.02
15	0256	7	CLR:00	10.00		49	9.4	18	-7.9	39	3.9	69	7	270		30.05			30.05	FM-15	0.00	30.01
15	0356	7	CLR:00	10.00		48	8.9	18	-7.8	39	3.9	71	6	260		30.04	8	+0.01	30.05	FM-15	0.00	30.00
15	0456	7	CLR:00	10.00		51	10.6	46	7.9	40	4.4	66	6	260		30.03			30.03	FM-15	0.00	29.99
15	0556	7	BKN:07 180 BKN:07 250	10.00		51	10.6	46	7.7	39	3.9	64	3	230		30.02			30.03	FM-15	0.00	29.98
15	0656	7	BKN:07 180 BKN:07 250	10.00		52	11.1	48	8.7	42	5.6	69	5	240		30.03	5	+0.01	30.04	FM-15	0.00	29.99
15	0756	7	BKN:07 150 BKN:07 200	9.00		55	12.8	49	9.5	42	5.6	62	0	000		30.04			30.04	FM-15	0.00	30.00
15	0856	7	BKN:07 150 BKN:07 200	8.00		58	14.4	53	11.5	47	8.3	67	0	000		30.05			30.05	FM-15	0.00	30.01
15	0956	7	BKN:07 150 BKN:07 200	10.00		62	16.7	54	12.2	46	7.8	56	0	000		30.04	0	-0.01	30.04	FM-15	0.00	30.00
15	1056	7	FEW:02 150 BKN:07 200 BKN:07 250	10.00		66	18.9	57	13.7	48	8.9	52	0	000		30.03			30.03	FM-15	0.00	29.99
15	1156	7	FEW:02 150 BKN:07 200 BKN:07 250	9.00		68	20.0	58	14.4	49	9.4	51	5	130		29.98			29.99	FM-15	0.00	29.94
15	1256	7	FEW:02 150 BKN:07 200 BKN:07 250	10.00		68	20.0	59	14.9	51	10.6	55	3	360		29.96	8	+0.08	29.96	FM-15	0.00	29.92
15	1356	7	FEW:02 150 BKN:07 200	10.00		70	21.1	59	15.1	50	10.0	49	3	VRB		29.94			29.95	FM-15	0.00	29.90
15	1456	7	FEW:02 150 BKN:07 200	8.00		70	21.1	59	14.9	49	9.4	47	3	130		29.94			29.95	FM-15	0.00	29.90
15	1556	7	SCT:04 150 BKN:07 250	8.00		70	21.1	59	15.1	50	10.0	49	0	000		29.94	5	+0.02	29.95	FM-15	0.00	29.90
15	1656	7	SCT:04 160 BKN:07 220	10.00		68	20.0	57	14.2	48	8.9	49	0	000		29.95			29.95	FM-15	0.00	29.91
15	1756	7	FEW:02 100 SCT:04 140 BKN:07 200	9.00		66	18.9	57	13.7	48	8.9	52	6	090		29.93			29.94	FM-15	0.00	29.89
15	1856	7	FEW:02 90 SCT:04 110 BKN:07 160	7.00		66	18.9	58	14.2	50	10.0	56	5	190		29.95	3	-0.01	29.96	FM-15	0.00	29.91
15	1926	7	FEW:02 90 BKN:07 110 OVC:08 160	8.00		72	22.2	52	11.2	29	-1.7	20	16	250		29.94				FM-16		29.90
15	1956	7	FEW:02 90 BKN:07 110 OVC:08 160	8.00		73	22.8	52	11.1	27s	-2.8s	18	17	240		29.94			29.95	FM-15	T	29.90
15	2056	7	FEW:02 90 SCT:04 120 BKN:07 180	9.00		71	21.7	52	11.1	30s	-1.1s	22	18	250		29.94			29.95	FM-15	T	29.90
15	2156	7	FEW:02 90 SCT:04 120 BKN:07 180	5.00	DU ||DU	73	22.8	53	11.9	32	0.0	22	24	260	38	29.93	7	+0.02	29.94	FM-15	T	29.89
15	2256	7	FEW:02 90 SCT:04 110 BKN:07 160	6.00	DU ||DU	72	22.2	55	12.8	38	3.3	29	18	270	32	29.93			29.94	FM-15	T	29.89

FIGURE B-35
EL CENTRO NAF (KNJK) QCLCD – DECEMBER 15, 2016

U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information Service
Elev: -42 ft. Lat: 32.8167° N Lon: -115.6833° W
Station: EL CENTRO NAF, CA US WBAN:23199

Local Climatological Data
Hourly Observations
December 2016
Generated on 07/05/2017

National Centers for Environmental Information
151 Patton Avenue
Asheville, North Carolina 28801

Date	Time (LST)	Station Type	Sky Conditions	Visibility	Weather Type (see documentation)	Dry Bulb Temp		Wet Bulb Temp		Dew Point Temp		Rel Hum %	Wind Speed (MPH)	Wind Dir (Deg)	Wind Gusts (MPH)	Station Press (inHg)	Press. Tend	Net 3-Hr Change (inHg)	Sea Level Press. (inHg)	Report Type	Precip Total (in)	Altimeter Setting (inHg)
					AU | AW | MW	(F)	(C)	(F)	(C)	(F)	(C)											
16	0056	7	FEW:02 80	10.00	-RA:02 |RA:61 |	69	20.6	60	15.4	41	5.0	36	20	320	32	29.92	5	+0.02	29.92	FM-15	T	29.88
16	0141	7	SCT:04 90 BKN:07 110	10.00		68	20.0	59	15.0	38	3.3	33	11	250	21	29.92				FM-16	T	29.88
16	0156	7	BKN:07 100 OVC:08 110	7.00	-RA:02 |RA:61 |	69	20.6	60	15.7	35	1.7	29	24	250		29.91			29.92	FM-15	T	29.87
16	0256	7	BKN:07 100	10.00	-RA:02 |RA:61 |	66	18.9	57	13.9	40	4.4	39	20	250		29.89			29.89	FM-15	T	29.85
16	0356	7	FEW:02 75 BKN:07 110	10.00	-RA:02 |RA:61 |	64	17.8	55	13.1	43	6.1	46	11	320		29.87	8	+0.04	29.88	FM-15	T	29.83
16	0456	7	BKN:07 100 OVC:08 120	10.00		66	18.9	57	14.0	45	7.2	47	13	270		29.86			29.87	FM-15	T	29.82
16	0556	7	FEW:02 60 BKN:07 95 OVC:08 110	10.00		66	18.9	58	14.2	47	8.3	50	5	280		29.87			29.88	FM-15	0.00	29.83
16	0656	7	SCT:04 60 BKN:07 90	10.00		68	20.0	59	15.2	49	9.4	51	5	VRB		29.86			29.86	FM-15	0.00	29.82
16	0756	7	BKN:07 60 BKN:07 90	10.00		70	21.1	61	16.2	51	10.6	51	8	220		29.86			29.87	FM-15	T	29.82
16	0856	7	BKN:07 60	10.00		73	22.8	64	17.5	52	11.1	48	6	VRB		29.87			29.88	FM-15	0.00	29.83
16	0956	7	SCT:04 60	3.00	DU:5 ||DU:07	77	25.0	67	19.3	51	10.6	40	34s	250	39	29.86	8	+0.01	29.86	FM-15	0.00	29.82
16	1007	7	SCT:04 60	2.00	DU:5 ||DU:07	77	25.0	67	19.3	52	11.1	42	33	250	44	29.86				FM-16		29.82
16	1054	6	SCT:04 60	8.00	DU:5 ||DU:07	79	26.0	68	20.3	52	11.0	39	33	250	39	29.84				FM-16		29.80
16	1056	7	SCT:04 60	8.00		79	26.1	68	20.3	51	10.6	38	30	250	39	29.84			29.84	FM-15	0.00	29.80
16	1156	7	SCT:04 60	10.00		79	26.1	68	20.3	51	10.6	38	24	270		29.81			29.81	FM-15	0.00	29.77
16	1256	7	SCT:04 60	10.00		79	26.1	69	20.3	50	10.0	36	25	270		29.77	8	+0.09	29.77	FM-15	0.00	29.73
16	1356	7	SCT:04 70	10.00		79	26.1	69	20.3	50	10.0	36	28	280		29.74			29.75	FM-15	0.00	29.70
16	1456	7	SCT:04 70 SCT:04 120	10.00		77	25.0	67	19.3	50	10.0	39	16	280	25	29.74			29.75	FM-15	0.00	29.70
16	1556	7	SCT:04 70 SCT:04 120	8.00		73	22.8	63	17.5	52	11.1	48	29	270	39	29.76	5	+0.01	29.76	FM-15	0.00	29.72
16	1656	7	SCT:04 60 BKN:07 100	7.00		70	21.1	61	15.9	46	7.8	42	17	310		29.78			29.78	FM-15	0.00	29.74
16	1707	7	FEW:02 50 SCT:04 80 BKN:07 120	5.00	DU:5 ||DU:07	68	20.0	59	14.9	44	6.7	42	18	300		29.79				FM-16		29.75
16	1756	7	FEW:02 65	10.00	-RA:02 |RA:61 |	64	17.8	55	13.0	43	6.1	46	18	230		29.80			29.80	FM-15	T	29.76
16	1803	7	FEW:02 65	10.00	-RA:02 |RA:61 |	64	17.8	55	13.0	43	6.1	46	15	230		29.80				FM-16	T	29.76
16	1856	7	CLR:00	10.00		63	17.2	55	12.6	42	5.6	47	10	240		29.80	1	-0.05	29.81	FM-15	T	29.76
16	1954	6	FEW:02 20	10.00		63	17.0	54	12.4	37	3.0	39	21	250	25	29.84				FM-16		29.80
16	1956	7	FEW:02 20	10.00	-RA:02 |RA:61 |	62	16.7	53	11.9	37	2.8	40	15	260	25	29.84			29.85	FM-15	T	29.80
16	2003	7	FEW:02 22	10.00	-RA:02 |RA:61 |	61	16.1	53	11.4	36	2.2	39	17	260		29.84				FM-16	T	29.80
16	2056	7	BKN:07 11	3.00	-RA:02 |RA:61 |	60	15.6	52	11.0	37	2.8	42	18	230		29.86			29.87	FM-15	T	29.82
16	2106	7	BKN:07 20	4.00	-RA:02 |RA:61 |	59	15.0	51	10.6	38	3.3	46	14	240		29.87				FM-16	T	29.83
16	2128	7	SCT:04 26	10.00	-RA:02 |RA:61 |	60	15.6	52	11.0	36	2.2	41	24	230	33	29.86				FM-16	T	29.82
16	2156	7	CLR:00	10.00	-RA:02 |RA:61 |	59	15.0	51	10.5	36	2.2	42	22	230		29.87	1	-0.06	29.87	FM-15	T	29.83
16	2256	7	SCT:04 70 BKN:07 90	10.00		59	15.0	51	10.5	35	1.7	41	7	250		29.91			29.91	FM-15	T	29.87
16	2316	7	BKN:07 18 OVC:08 85	4.00	-RA:02 |RA:61 |	58	14.4	50	10.0	30	-1.1	35	20	250	28	29.91				FM-16	T	29.87
16	2332	7	SCT:04 18	9.00	-RA:02 |RA:61 |	58	14.4	50	10.0	30	-1.1	35	23	270	30	29.91				FM-16	T	29.87
16	2356	7	CLR:00	6.00	-RA:02 |RA:61 |	57	13.9	49	9.5	29	-1.7	34	32	260	45	29.91			29.91	FM-15	T	29.87